



C14-AEI-603

4707

BOARD DIPLOMA EXAMINATION, (C-14)
JUNE—2019
DAEIE—SIXTH SEMESTER EXAMINATION
COMMUNICATION ENGINEERING

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Give the expression for phase modulation.
2. Compare AM and PM in any three aspects.
3. State the need for heterodyning in radio receivers.
4. Define selectivity.
5. List any three pulse modulation techniques.
6. List any three applications of PWM.
7. Draw the block diagram of radar.
8. Distinguish between CDMA and GSM.
9. Define LAN.
10. State the need for routers.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Draw and explain the block diagram of AM transmitter.
12. Explain the FM generation using varactor diode method with a sketch.
13. Draw and explain the block diagram of TRF receiver.
14. Draw the block diagram of Fosters-Seely demodulaor and explain.
15. Explain the frequency division multiplexing method with a sketch.
16. (a) Differentiate PCM and PWM.
(b) Explain GSM briefly.
17. Draw the block diagram and explain the working principle of transmitter used in fiber optic communication system.
18. Draw and explain the block diagram of video conferencing.

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